ABSTRACT

This invention relates to processes of producing lubricant base oils comprising paraffinic hydrocarbon components that have optimized branching. The lubricant base oils comprising paraffinic hydrocarbon components with optimized branching have low amounts of branching with the branching concentrated toward the center of the lubricant base oil molecules. The lubricant base oils comprising paraffinic hydrocarbon components with optimized branching have low pour points and extremely high viscosity indexes. The invention further relates to processes of producing commercial lubricants comprising the lubricant base oils comprising paraffinic hydrocarbon components with optimized branching from waxy feeds.